

# Giacomo Sguazzoni

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2773623/publications.pdf>

Version: 2024-02-01

604  
papers

23,881  
citations

10389

72  
h-index

18130

120  
g-index

626  
all docs

626  
docs citations

626  
times ranked

10325  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Search for neutral MSSM Higgs bosons at LEP. European Physical Journal C, 2006, 47, 547.  | 3.9  | 592       |
| 2  | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s}$ TeV. European Physical Journal C, 2015, 75, 212. | 3.9  | 541       |
| 3  | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.   | 3.9  | 499       |
| 4  | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7  | 497       |
| 5  | Study of high-p <sub>T</sub> charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76\text{--}7\text{ TeV}$ . European Physical Journal C, 2012, 72, 1.  | 3.9  | 369       |
| 6  | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2019, 79, 421.  | 3.9  | 355       |
| 7  | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.  | 3.9  | 342       |
| 8  | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7\text{ and }8\text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.   | 4.7  | 320       |
| 9  | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ . European Physical Journal C, 2015, 75, 235.  | 3.9  | 320       |
| 10 | Branching ratios and spectral functions of $\tilde{l}$ , decays: Final ALEPH measurements and physics implications. Physics Reports, 2005, 421, 191-284.  | 25.6 | 288       |
| 11 | First look at the physics case of TLEP. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7  | 269       |
| 12 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at $\sqrt{s}=8\text{ TeV}$ . European Physical Journal C, 2014, 74, 3036.               | 3.9  | 241       |
| 13 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}=0.9\text{ and }2.36\text{ TeV}$ . Journal of High Energy Physics, 2010, 2010, 1.  | 4.7  | 230       |
| 14 | Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.  | 4.7  | 200       |
| 15 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.   | 3.9  | 198       |
| 16 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8\text{ TeV}$ . European Physical Journal C, 2015, 75, 542.   | 3.9  | 191       |
| 17 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$ . European Physical Journal C, 2012, 72, 1.   | 3.9  | 181       |
| 18 | Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ . European Physical Journal C, 2014, 74, 3149.   | 3.9  | 179       |

| # | ARTICLE | IF | CITATIONS |
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| 19 |  |  |  |
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| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 106       |
| 38 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 103       |
| 39 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 101       |
| 40 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 100       |
| 41 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 99        |
| 42 | Search for new phenomena with the $M_{\text{T}2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 710.                                    | 3.9 | 98        |
| 43 | Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7 \text{ TeV}$ and comparison with $\sqrt{s} = 0.9 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 97        |
| 44 | Search for supersymmetry in hadronic final states using $M_{\text{T}2}$ in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 95        |
| 45 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 95        |
| 46 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 92        |
| 47 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 147.   | 3.9 | 88        |
| 48 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 86        |
| 49 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 85        |
| 50 | Study of double parton scattering using $W + 2\text{-jet}$ events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 85        |
| 51 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 85        |
| 52 | Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}}=5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2847.  | 3.9 | 85        |
| 53 | Search for charginos nearly mass degenerate with the lightest neutralino in $e^+e^-$ collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 223-236. | 4.1 | 84        |
| 54 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of Instrumentation, 2020, 15, P10017-P10017.  | 1.2 | 84        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 83        |
| 56 | Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.                          | 3.9 | 83        |
| 57 | Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s} = 5.02$ TeV PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2018, 78, 509.                                 | 3.9 | 83        |
| 58 | Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.                                 | 3.9 | 82        |
| 59 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 82        |
| 60 | $J/\psi$ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 81        |
| 61 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 81        |
| 62 | Search for a charged Higgs boson in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 81        |
| 63 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 78        |
| 64 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 75.                       | 3.9 | 78        |
| 65 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 77        |
| 66 | Final results of the searches for neutral Higgs bosons in $e^+e^-$ collisions at $s$ up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 191-205.      | 4.1 | 75        |
| 67 | Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.                  | 4.7 | 75        |
| 68 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.                                       | 3.9 | 75        |
| 69 | Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.  | 3.9 | 74        |
| 70 | Measurement of the $X(3872)$ production cross section via decays to $J/\psi\eta + \bar{\psi}\psi$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.                         | 4.7 | 73        |
| 71 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.                 | 3.9 | 73        |
| 72 | Search for additional neutral MSSM Higgs bosons in the $J/\psi, \Upsilon$ , final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                       | 4.7 | 73        |

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|----|---|-----|-----------|
| 73 | Search for scalar leptons in $e^+e^-$ collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 206-220.  | 4.1 | 72        |
| 74 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.                                      | 4.7 | 70        |
| 75 | Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV}. European Physical Journal C, 2020, 80, 3. | 3.9 | 70        |
| 76 | Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 69        |
| 77 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 69        |
| 78 | Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7, \text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 68        |
| 79 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.  | 3.9 | 68        |
| 80 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 68        |
| 81 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.               | 3.9 | 68        |
| 82 | Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.                                    | 3.9 | 68        |
| 83 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 66        |
| 84 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 65        |
| 85 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ , ext {TeV} $s = 7$ TeV. European Physical Journal C, 2014, 74, 3129.  | 3.9 | 65        |
| 86 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2013, 73, 2283.  | 3.9 | 64        |
| 87 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} $s = 13$ TeV. European Physical Journal C, 2016, 76, 439.  | 3.9 | 64        |
| 88 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 63        |
| 89 | Measurement of the $W+W^+$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1.   | 3.9 | 62        |
| 90 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ , ext {TeV} $s = 8$ TeV. European Physical Journal C, 2016, 76, 13.                                    | 3.9 | 62        |

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|-----|---|-----|-----------|
| 91  | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 62        |
| 92  | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 62        |
| 93  | Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 62        |
| 94  | Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 61        |
| 95  | Search for charged Higgs bosons in $e^+e^-$ collisions at energies up to $\hat{A} \text{ GeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 1-13.   | 4.1 | 60        |
| 96  | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1. | 3.9 | 60        |
| 97  | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 59        |
| 98  | Search for anomalous $\overline{t}t$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 58        |
| 99  | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 58        |
| 100 | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 58        |
| 101 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2015, 75, 237.   | 3.9 | 58        |
| 102 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at $8 \text{ TeV}$ . European Physical Journal C, 2018, 78, 701.   | 3.9 | 58        |
| 103 |   |     |           |

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|-----|--|-----|-----------|
| 109 | Exclusive $\hat{t}\hat{t}^* \hat{t} + \hat{t}^* \hat{t}$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 56        |
| 110 | Event activity dependence of $\Upsilon$ ( $nS$ ) production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 56        |
| 111 | Search for scalar quarks in $e^+e^-$ collisions at up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 537, 5-20.   | 4.1 | 55        |
| 112 | Measurement of masses in the $\overline{t}t$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494.  | 3.9 | 55        |
| 113 | Measurement of associated $W +$ charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 55        |
| 114 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.   | 3.9 | 55        |
| 115 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.   | 3.9 | 54        |
| 116 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 54        |
| 117 | Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau, \tau^* \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 54        |
| 118 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.   | 4.7 | 54        |
| 119 | Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 54        |
| 120 | Search for pentaquark states in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 599, 1-16.   | 4.1 | 53        |
| 121 | Measurement of the $\overline{t}t$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 53        |
| 122 | Measurement of prompt and nonprompt $J/\psi$ production in $pp$ and $pPb$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. <a href="#">img="si1.gif" overflow="scroll"</a>  | 3.9 | 53        |
| 123 | $\overline{t}t$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.<br><small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tee="http://www.elsevier.com/xml/tee/dtd"</small> | 4.1 | 52        |
| 124 | Fermion pair production in $e^+e^-$ collisions at 189 GeV and constraints on physics beyond the standard model. European Physical Journal C, 2007, 49, 411-437.  | 3.9 | 52        |
| 125 | Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 52        |
| 126 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.  | 3.9 | 52        |



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|-----|--|-----|-----------|
| 127 | Measurements of the $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross section and the $\sigma(\text{pp} \rightarrow \text{Z}\ell\ell)$ branching fraction, and improved measurement of the triple gauge-boson couplings in WW and ZWW in 2011, <i>Math</i> 165. | 3.9 | 52        |
| 128 | Search for exclusive or semi-exclusive $\text{t}\bar{\text{t}}\text{Z}$ production and observation of exclusive and semi-exclusive $\text{e}^+\text{e}^-$ production in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.        | 4.1 | 51        |
| 129 | Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.  | 4.7 | 51        |
| 130 | Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.  | 4.7 | 51        |
| 131 | First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. <i>European Physical Journal C</i> , 2010, 70, 555-572.   | 3.9 | 50        |
| 132 | Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.  | 4.7 | 50        |
| 133 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 564.  | 3.9 | 50        |
| 134 | Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.  | 4.7 | 49        |
| 135 | Search for leptonic decays of $W\ell\ell$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.  | 4.7 | 49        |
| 136 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014, 74, 1.   | 3.9 | 49        |
| 137 | Absolute mass lower limit for the lightest neutralino of the MSSM from $\text{e}^+\text{e}^-$ data at $s$ up to 209 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 583, 247-263.                                   | 4.1 | 48        |
| 138 | Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.  | 4.7 | 48        |
| 139 | Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.  | 4.7 | 48        |
| 140 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 364.   | 3.9 | 48        |
| 141 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 4.7 | 47        |
| 142 | Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.  | 4.7 | 46        |
| 143 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 4.7 | 46        |
| 144 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.   | 4.7 | 46        |

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|-----|--|-----|-----------|
| 145 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ , lepton at $\sqrt{s}=13$ , ext {TeV} $s = 13$ Te. European Physical Journal C, 2018, 78, 707.   | 3.9 | 46        |
| 146 | Measurement of the W boson mass and width in e+e- collisions at LEP. European Physical Journal C, 2006, 47, 309-335.   | 3.9 | 45        |
| 147 | Search for heavy bottom-like quarks in $4.9 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 45        |
| 148 | Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 44        |
| 149 | Search for a light charged Higgs boson decaying to $c \bar{s}$ in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.  | 4.7 | 44        |
| 150 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=8$ , ext {TeV} $s = 8$ TeV. European Physical Journal C, 2015, 75, 151.  | 3.9 | 44        |
| 151 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} $s = 13$ TeV. European Physical Journal C, 2018, 78, 140.     | 3.9 | 44        |
| 152 | Study of the CP asymmetry of $B_0 \rightarrow \tau^+ \tau^-$ decays in ALEPH. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 492, 259-274.  | 4.1 | 43        |
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